

IN THE CLAIMS

1. (Currently Amended) A programmable agent workstation system in a directory assistance system (DAS) network, comprising:

- (a) a JavaPhone means;
- (b) a PlusTcp means; and
- (c) a PlusTapi means;

wherein

said JavaPhone means provides a JavaPhone with audio support in an Intelligent Workstation Platform (IWSP) including audio controls/status and/or call controls/status;

said PlusTcp means provides TCP/IP communication support for local socket connections to said JavaPhone means, wherein the local socket connection is used for communicating both audio and call control operations between the JavaPhone means and the IWSP and a call director without the use of a Call Processing Gateway (CPG) and call processing switch used to route telephony, while maintaining compatibility with the H.323 protocol;

said PlusTapi means enumerates commands and data items to the IWSP to allow a Directory Assistance (DA) operator to communicate with said JavaPhone means and perform related audio and call control operations including all switch related messaging.

2. (Original) The programmable agent workstation system of Claim 1 wherein one or more components of said system is implemented within an application programming interface (API).
3. (Original) The programmable agent workstation system of Claim 1 wherein said TCP/IP communication occurs between PC-to-phone endpoints.

4. (Original) The programmable agent workstation system of Claim 1 wherein said TCP/IP communication occurs between phone-to-PC endpoints.
5. (Original) The programmable agent workstation system of Claim 1 wherein said TCP/IP communication occurs between phone-to-phone endpoints.
6. (Original) The programmable agent workstation system of Claim 1 wherein one or more components of said system is implemented on a personal computer (PC).
7. (Original) The programmable agent workstation system of Claim 6 wherein said personal computer (PC) utilizes a graphical user interface.
8. (Original) The programmable agent workstation system of Claim 7 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.
9. (Original) The programmable agent workstation system of Claim 7 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.
10. (Currently Amended) The programmable agent workstation system of Claim 1 wherein said JavaPhone means further comprises one or more of the following:
 - (a) a volume up/down means;
 - (b) a microphone mute/unmute means;
 - (c) a raise/lower microphone gain means;
 - (d) a headset unjacking detection means;
 - (e) a sign on/off control/status means;
 - (f) a call arrival indication means;
 - (g) a call termination indication means;
 - (h) a call conferencing means;
 - (i) a make busy control means; and

(j) a hold/unhold call control means.

11. (Original) The programmable agent workstation system of Claim 10 wherein one or more components of said system is implemented within an application programming interface (API).

12. (Original) The programmable agent workstation system of Claim 10 wherein one or more components of said system is implemented on a personal computer (PC).

13. (Original) The programmable agent workstation system of Claim 12 wherein said personal computer (PC) utilizes a graphical user interface.

14. (Original) The programmable agent workstation system of Claim 13 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.

15. (Original) The programmable agent workstation system of Claim 13 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.

16. (Previously Amended) The programmable agent workstation system of Claim 1 wherein said PlusTcp means further comprises one or more of the following:

- (a) a TcpOpen means;
- (b) a TcpClose means;
- (c) a TcpSend means;
- (d) a TcpRecv means;
- (e) a TcpGetLastError means; and
- (f) a TcpGetErrorString means.

17. (Original) The programmable agent workstation system of Claim 16 wherein one or more components of said system is implemented within an application programming interface (API).

18. (Original) The programmable agent workstation system of Claim 16 wherein one or more components of said system is implemented on a personal computer (PC).
19. (Original) The programmable agent workstation system of Claim 18 wherein said personal computer (PC) utilizes a graphical user interface.
20. (Original) The programmable agent workstation system of Claim 19 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.
21. (Original) The programmable agent workstation system of Claim 19 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.
- 22.(Previously Amended) The programmable agent workstation system of Claim 1 wherein said PlusTapi means further comprises one or more of the following:
 - (a) a TapiMakeCall means;
 - (b) a TapiHoldCall means;
 - (c) a TapiUnholdCall means;
 - (d) a TapiBlindXferCall means;
 - (e) a TapiRetrieveCall means;
 - (f) a TapiDisconnect means;
 - (g) a TapiBlindConfCall means;
 - (h) a TapiLogon means;
 - (i) a TapiLogoff means;
 - (j) a TapiDTMF means;
 - (k) a TapiNotReady means;
 - (l) a TapiReady means;
 - (m) a TapiVolumeSet means;

- (n) a Tapi SetProperty means;
- (o) a Tapi GetProperty means;
- (p) a Tapi Shutdown means;
- (q) a Tapi Ping means;
- (r) a Tapi Hold Toggle means;
- (s) a Tapi Ready Toggle means;
- (t) a Tapi Mute Toggle means;
- (u) a Tapi Volume Up means;
- (v) a Tapi Volume Down means;
- (w) a Tapi Mic Gain Up means;
- (x) a Tapi Mic Gain Down means;
- (y) a Tapi Mic Gain Set means; and
- (z) a Tapi Display Errs means.

23. (Original) The programmable agent workstation system of Claim 22 wherein one or more components of said system is implemented within an application programming interface (API).
24. (Original) The programmable agent workstation system of Claim 22 wherein one or more components of said system is implemented on a personal computer (PC).
25. (Original) The programmable agent workstation system of Claim 24 wherein said personal computer (PC) utilizes a graphical user interface.
26. (Original) The programmable agent workstation system of Claim 25 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.

27. (Original) The programmable agent workstation system of Claim 25 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.

28. (Currently Amended) A programmable agent workstation method comprising:

- (1) processing Voice Over IP (VoIP) data TCP/IP communications in support of local socket connections with a PlusTcp means, wherein the local socket connection is used for communicating both audio and call control operations between a JavaPhone means and the IWSP and a call director without the use of a Call Processing Gateway (CPG) and call processing switch used to route telephony, while maintaining compatibility with the H.323 protocol;
- (2) processing user call audio control/status and call controls/status with a JavaPhone means, with a JavaPhone for providing audio support in the IWSP;
- (3) processing user interface commands and data items to the IWSP platform to allow a Directory Assistance (DA) operator control/status with a PlusTapi means including all switch related messaging;

wherein

said processing may be performed synchronously and/or asynchronously.

29. (Original) The programmable agent workstation method of Claim 28 wherein one or more steps of said method is implemented within an application programming interface (API).

30. (Original) The programmable agent workstation method of Claim 28 wherein one or more steps is implemented on a personal computer (PC).

31. (Original) The programmable agent workstation method of Claim 30 wherein said personal computer (PC) utilizes a graphical user interface.

32. (Original) The programmable agent workstation method of Claim 31 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.

33. (Original) The programmable agent workstation method of Claim 31 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.

34. (Currently Amended) A computer usable medium having computer-readable program code means providing programmable agent workstation functionality in a directory assistance (DAS) network, said computer-readable program means comprising:

- (1) computer program code means for processing Voice Over IP (VoIP) data TCP/IP communications in support of local socket connections with a PlusTcp means, wherein the local socket connection is used for communicating both audio and call control operations between a JavaPhone means and the IWSP and a call director without the use of a Call Processing Gateway (CPG) and call processing switch used to route telephony, while maintaining compatibility with the H.323 protocol;
- (2) computer program code means for processing user call audio control/status and call controls/status with a JavaPhone means with a JavaPhone for providing audio support in the IWSP;
- (3) computer program code means for processing user interface commands and data items to the IWSP platform to allow a Directory Assistance (DA) operator control/status with a PlusTapi means including all switch related messaging;

wherein

said processing may be performed synchronously and/or asynchronously.

35. (Original) The computer usable medium of Claim 34 wherein said medium is compatible with a personal computer (PC).

36. (Original) The computer usable medium of Claim 35 wherein said computer code means utilizes a graphical user interface.

37. (Original) The computer usable medium of Claim 36 wherein said graphical user interface utilizes a Microsoft® Windows™ operating environment.
38. (Original) The computer usable medium of Claim 36 wherein said graphical user interface utilizes an IBM® AIX™ operating environment.

Final Office Action Is Inappropriate in View of Newly Cited Art Mathis and Bar

Applicants have studied the Office Action dated November 28, 2003 and have made amendments to the claims. Applicants respectfully request entry of this amendment under the provisions of 37 C.F.R. § 1.116(a) in that the amendment and remarks below place the application and claims in condition for allowance, or, at least, present the application in better form for appeal. It is submitted that the application, as amended, is in condition for allowance. Claims 1-38 are pending. Claims number 1, 10, 28, and 34 have been amended. Reconsideration and further examination of the claims in view of the above amendments and the following remarks are respectfully requested.

As an initial matter, the Examiner made the Office Action final based on a new ground of rejection not stated in the earlier Office Action. Applicants respectfully traverse this decision. In the Final Office Action, the Examiner rejects the present claims by citing Mathis (U.S. 6,269,254) in view of Bar et al. (US 6,122,665). The Applicants respectfully point out that both Mathis and Bar were not cited in any of the previous Office Actions. According to MPEP § 706.07(a): "Under present practice, second or any subsequent actions on the merits shall be final, except where the examiner introduces a new ground of rejection not necessitated by amendment of the application by applicant, whether or not the prior art is already of record." In the previous Office Action dated June 19, 2003, the Examiner rejected claims 1, 2, 6-38 under 35 U.S.C. §103(a) as being unpatentable over Gerszberg et al (US 6,044,403) in view of Johnson (US 6,366,578) and rejected claims 3-5 under 35 U.S.C. §103(a) as being unpatentable over Gerszberg et al (US 6,044,403) in view of Johnson (US 6,366,578) and in further view of Petty et al. (US 6,337,858). In the previously-filed amendment, Applicants amended the independent claims 1, 28, and 34 for clarity and to better define that the present invention is part of a call center. The Applicants did not switch from one subject matter to another or resort to any subterfuge to keep the application pending. Thus, it is respectfully submitted that the final status of the Office Action is premature and should be withdrawn.¹

¹ See MPEP § 706.07.

If the Examiner does not withdraw the final status of the Office Action, Applicants submit that this response does not raise new issues in the application. It is submitted that the present response places the application in condition for allowance or, at least, presents the application in better form for appeal. Entry of the present response is therefore respectfully requested.